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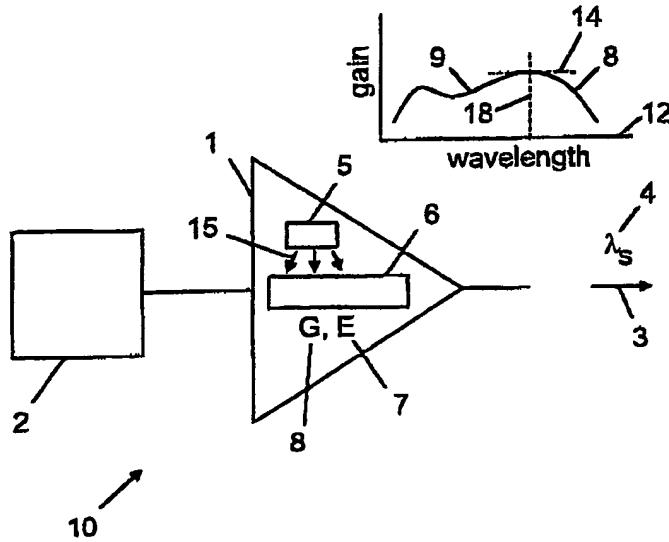
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(54) Title: LD PUMPED FIBRE AMPLIFIER WITH SECOND RESONATOR OR INPUT SIGNAL FOR GAIN LIMITATION

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(57) Abstract: Apparatus (10) for providing optical radiation (3) having a signal wavelength λ_s (4), which apparatus (10) comprises at least one pump (5) for providing pump radiation (15), a gain medium (6), and energy limiting means (2), in which the pump radiation (15) acts on the gain medium (6) to provide stored energy (7) and gain (8) for optical amplification, characterised in that the gain (8) has a maximum gain (14) at a wavelength (18) at which the maximum gain occurs (14), and the energy limiting means (2) limits the maximum gain (14) and the amount of stored energy (7) that is able to be stored to values below those at which the stored energy (7) will cause damage to the apparatus (10).